Kirby Morgan 47 Helmet
Operations and Maintenance Manual

KMDSI Part #100-070

Patented, Foreign Patents Pending, other patents apply.

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Manual prepared by Marine Marketing and Consulting, Dive Lab, Inc., and KMDSI.

NOTE: This manual is the most current for the Kirby Morgan 47 Helmet. It is page dated May 2007. Future changes will be shown on page III and the changed pages will carry the date of change. Previous manuals may not reflect these updates.

⚠ WARNING

Diving with compressed breathing gas is a hazardous activity. Even if you do everything right there is always the danger that you may be killed or injured. No piece of diving equipment can prevent the possibility that you may be killed or injured any time you enter the water.

The Kirby Morgan 47 helmet meets or exceeds all performance and testing requirements of all government and non-government testing agencies throughout the world. It is approved for use on all commercial and military work underwater. Only Kirby Morgan masks and helmets have achieved the CR (Commercially Rated) mark, the highest United States of America rating.

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WARRANTY INFORMATION

Kirby Morgan Dive Systems, Inc. warrants every new mask, helmet, or KMAC Air Control System to be free from defects in workmanship for a period of ninety (90) days from date of purchase. This warranty covers all metal, fiberglass, and plastic parts. This warranty does NOT cover rubber parts, communications components, or headliners. In addition, due to the electrolytic nature of underwater cutting and welding, chrome plating cannot be warranted when the diver engages in these activities.

Should any part become defective, contact the nearest authorized KMDSI dealer. If there is no dealer in your area, contact KMDSI directly at (805) 928-7772. You must have a return authorization from KMDSI prior to the return of any item, Upon approval from KMDSI, return the defective part, freight prepaid, to the KMDSI plant. The part will be repaired or replaced at no charge as deemed necessary by KMDSI.

This warranty becomes null and void if:

1) **The product is not registered with KMDSI within ten (10) days of purchase.**
2) **The product has not been properly serviced and/or maintained according to the appropriate KMDSI manual. In addition, the user is responsible to ensure that all product updates as recommended by KMDSI have been performed.**
3) **Unauthorized modifications have been made to the product.**
4) **The product has been abused or subjected to conditions which are unusual or exceed the product's intended service.**

NOTE: Be sure to complete the enclosed warranty card and return it to KMDSI immediately. No warranty claims will be honored without a satisfactorily completed warranty card on file at KMDSI.

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RECORD OF CHANGES

It is the responsibility of the owner of this product to register their ownership with Kirby Morgan Dive Systems, Inc., by sending the warranty card provided. This card is to establish registration for any necessary warranty work and provides a means of communication that allows KMDSI to contact the user regarding this product. The user must notify KMDSI of any change of address by the user or sale of the product.

All changes or revisions to this manual must be recorded in this document to ensure that the manual is up to date.

Change Number	Date	Description of Change	Page Number

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⚠ WARNING

Diving with compressed breathing gas is a hazardous activity. Even if you do everything right there is always the potential for serious injury or death. No one piece of diving equipment can prevent the possibility that you may be injured or killed any time you enter the water. We do not herein make any effort to teach the principles of diving. The information in this manual is intended for users of Kirby Morgan helmets and persons that maintain or service Kirby Morgan helmets.

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Definition of Signal Words Used in this Manual

For your protection, pay particular attention to items identified by signal words in this manual. These terms are identified as, CAUTION, WARNING AND DANGER. It is especially important for you to read and understand these sections.

⚠ DANGER

This word indicates an imminently hazardous situation, which if not avoided, could result in death or serious injury.

⚠ WARNING

This word indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠ CAUTION

This word indicates a potentially hazardous situation, which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If English is not your native language and you have any difficulty understanding the language of any warnings as they appear in the manual, please have them translated.

⚠ WARNING

Este é um aviso importante. Queira mandá-lo traduzir.

⚠ WARNING

Este es un aviso importante. Sirvase mandario traducir.

⚠ WARNING

Quest è un avviso importante. Tradurlo.

⚠ WARNING

Ceci est important. Veuillez traduire.

⚠ WARNING

Diese Mitteilung ist wichtig. Bitte übersetzen lassen.

If you have any questions concerning this manual or the operation of your helmet, contact KMDSI (805) 928-7772 or by Email at KMDSI@KirbyMorgan.com or Dive Lab Inc. (850) 235-2715 or at Divelab@aol.com

IMPORTANT: A word about this manual. We have tried to make this manual as comprehensive and factual as possible. We reserve the right, however, to make changes at any time, without notice, in prices, colors, materials, equipment, specifications, models and availability. Since some information may have been updated since the time of printing, please contact your local KMDSI dealer if you have any questions. To find a dealer near you, please see the Kirby Morgan web site, www.kirbymorgan.com. Periodically KMDSI Operations and Maintenance Manuals are reviewed. Any updates/changes will be posted on the KMDSI website and may be downloaded for insertion/correction.

Important Safety Information:
This Kirby Morgan diving helmet is intended for use by trained divers who have successfully completed a recognized training course in surface supplied diving.

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⚠ WARNING

Follow all the instructions in this manual carefully and heed all safety precautions. Improper use of this diving helmet could result in serious injury or death.

⚠ WARNING

Kirby Morgan Dive Systems, Inc. (KMDSI) warns all divers who use Kirby Morgan diving helmets or masks to be sure to use only KMDSI original parts from a KMDSI authorized dealer. Although other parts, O-rings and fittings may appear to fit your Kirby Morgan diving helmet or mask, they may not be manufactured to the same standards maintained by KMDSI. The use of any parts other than KMDSI original parts may lead to equipment failure and accidents.

⚠ WARNING

Diving in waters that are chemically, biologically, or radiologically contaminated is extremely hazardous. Although Kirby Morgan diving helmets may be adapted for use in some contaminated environments, special training, equipment, and procedures are necessary. Do not dive in a contaminated environment unless you have been thoroughly trained and equipped for this type of diving.

Read this manual before using or maintaining the helmet, even if you have experience with other diving helmets. **If you have purchased the helmet new from a dealer, be sure to send in the warranty registration card so we may keep you informed of any safety notices that affect this product**. If you resell or loan this helmet to another diver, be sure this manual accompanies the helmet and that the person reads and understands the manual. **In addition to the manual a log book should be used to log all repairs, maintenance and use.**

⚠ WARNING

Diving is a life threatening occupation. Even if you do everything right you can still be killed or injured. None of the models of Kirby Morgan helmets or masks can prevent accidents, injuries or death due to improper training, poor-health, improper supervision, improper job requirements, improper maintenance or acts of God.

⚠ WARNING

This helmet was completely checked and should be ready to dive as it was shipped from the factory. However, it is always the diver's responsibility to check all the components of the helmet prior to diving.

⚠ WARNING

Any and all fiberglass repairs done to this helmet MUST be done by a KMDSI factory trained repair facility. Painting is not recommended by KMDSI. Furthermore, many diving companies will not allow painted helmets to be used because painting can mask previous fiberglass damage. KMDSI certified technicians are not responsible for certifying helmets free from damage during annual overhauls.

Helmet shells can be re-gel coated by authorized/certified KMDSI trained technicians that have received fiberglass training by KMDSI. Helmets that are to be painted for cosmetic purposes, should be first, certified free of fiberglass damage by an authorized KMDSI technician certified in fiberglass repair. A log entry should be made in the helmet log that the helmet was free of damage prior to painting. Keep in mind other KMDSI technicians can refuse to work on helmet shells that have previously been painted or repaired by non KMDSI certified persons.

This manual is supplied to the original purchaser of this helmet. If you have any questions about the use of the helmet or you need another copy of this manual, contact KMDSI or your nearest KMDSI dealer. It may also be downloaded free from the KMDSI website at www.KirbyMorgan.com.

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If you have any questions regarding the use, maintenance, or operation of this helmet, contact KMDSI at (805) 928-7772, fax: (805) 928-0342, or e-mail: KMDSI@kirbymorgan.com.

⚠ WARNING

Kirby Morgan masks and helmets are cleaned and lubricated for oxygen service when they come from the factory. However, if the helmet is used with an oil lubricated air compressor, contamination with hydrocarbons may result. If the breathing system in the helmet is exposed to hydrocarbons, it must be cleaned for oxygen service and lubricated with oxygen safe lubricants before using it again with breathing mixtures containing a high percentage of oxygen. If this is not done, fires and explosions may result, exposing the user to serious personal injury or death.

Components requiring lubrication, should only be lubricated with oxygen compatible lubricants such as Christo Lube®, Flourolube®, or Krytox®. Lubricants must be used sparingly and should not be mixed with other lubricants.

⚠ WARNING

KMDSI helmets and masks are intended for underwater use only and should only be used by qualified divers that have received proper training in the use of this type of equipment. KMDSI helmets and masks should not be used or worn without the appropriate life support systems, such as air or gas supplies and support personnel as described in this manual.

KMDSI helmets and masks should never be used for motor sport racing, aviation / space craft use, or for chemical warfare use. The helmet must never be used by persons in poor physical condition, by persons with previous head, neck, or back injuries which could be aggravated by its use. The helmet should not be used by persons under the influence of drugs or alcohol. Furthermore, infants, children, or persons under the age of 18 should never wear KMDSI helmets and masks. Failure to pay heed to the above could result in serious injury or death.

⚠ WARNING

Never use the helmet without first completing all pre-dive maintenance and set up procedures.

⚠ WARNING

Do not use KMDSI masks or helmets in currents exceeding 3.0 knots Use in currents greater than 3 knots may allow water to enter the exhaust valve, possibly causing regulator flooding.

⚠ WARNING

Surface-supplied diving can be a strenuous activity. The Kirby Morgan 47 weighs approximately 30 lbs. KMDSI recommends that persons with a previous neck or back injury seek professional medical approval prior to engaging in surface supplied diving operations using the Kirby Morgan 47. Use of the Kirby Morgan 47 with a pre-existing physical/medical condition may result in death or serious injury.

The information contained in this manual is intended to aid the user in optimizing the performance of this helmet. The application of some of this information will depend on the diving situation and the use of associated equipment. Many countries have specific laws and rules regarding commercial diving. It is important for the user to understand the rules, regulations, and philosophy imposed by the governing, regulating bodies whenever using commercial diving equipment.

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Whenever KMDSI helmets or masks are used in European Countries, which have adopted the C.E. certification programs, they must only be used with C.E. certified components. Diving operations should only be conducted within the limits of the operational specifications, and in accordance with the rules and regulations established by the governing authority in the specific country or geographical location where the diving operations are being conducted. If you have any questions concerning this manual or the operation of your helmet, contact KMDSI (805) 928-7772 or at kmdsi@KirbyMorgan.com or Dive Lab Inc. (850) 235-2715 or at Divelab@aol.com

⚠ WARNING

Always read the Material Safety Data Sheet (MSDS) for any chemical - adhesive, cleaning agent, or lubricant - used on your Kirby Morgan helmet. Some of these chemicals may cause serious bodily injury or death if used improperly or without the proper personal protective equipment.

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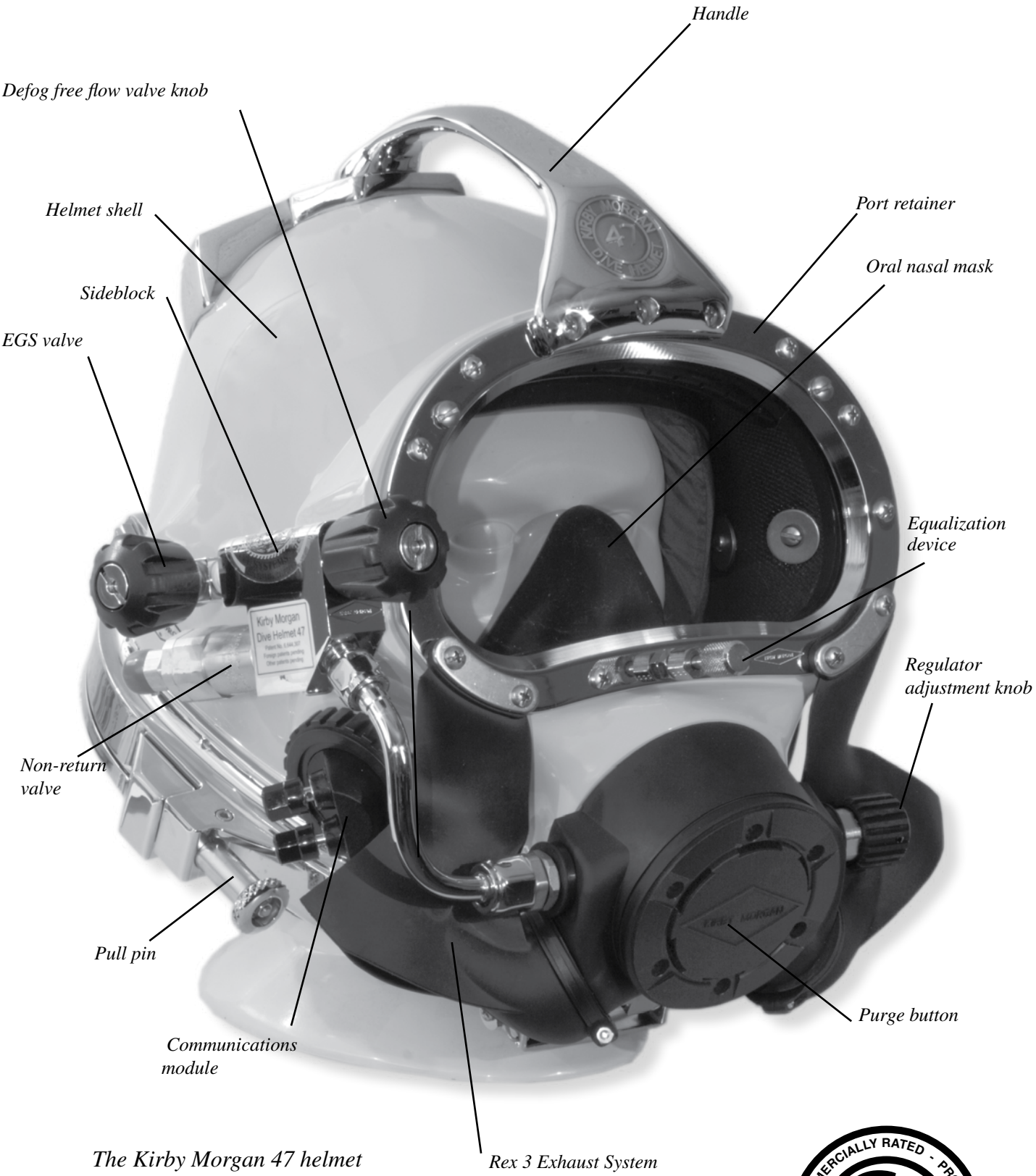

The Kirby Morgan 47 helmet

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